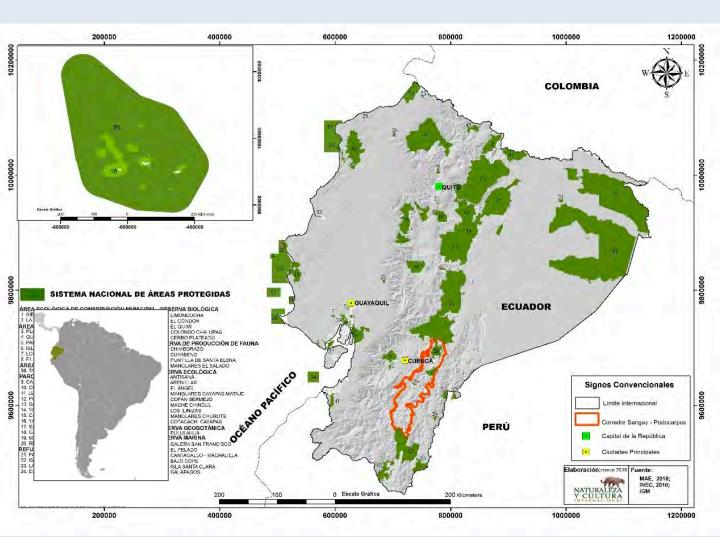
"Human – Wildlife interactions in the Sangay-Podocarpus Connectivity Corridor, Andes of Southern Ecuador: A socio-ecological and geographic characterization"

Manuel A. Morales-Mite Graduate Student, Master of Sustainable Development Practice (MDP) Program - Cohort 9

Committee members: Dr. Vanessa Hull (Chair), Dr. Bette Loiselle & Dr. Brian Child

# Study Site



Sangay-Podocarpus Connectivity Territory (SPCC) is a multi-landscape region in the Andes of Southern Ecuador (red line). It encompasses 567,000 ha of territory, mostly national protected areas and local conservation areas, with some scattered human settlement inside, while several medium-sized towns are located around it.

The zone has importance for ecological services and to foster biologic populations connectivity; It has also been reported several issues relative to human-wildlife conflicts, particularly crop riding and attacks over domestic animals by carnivores.

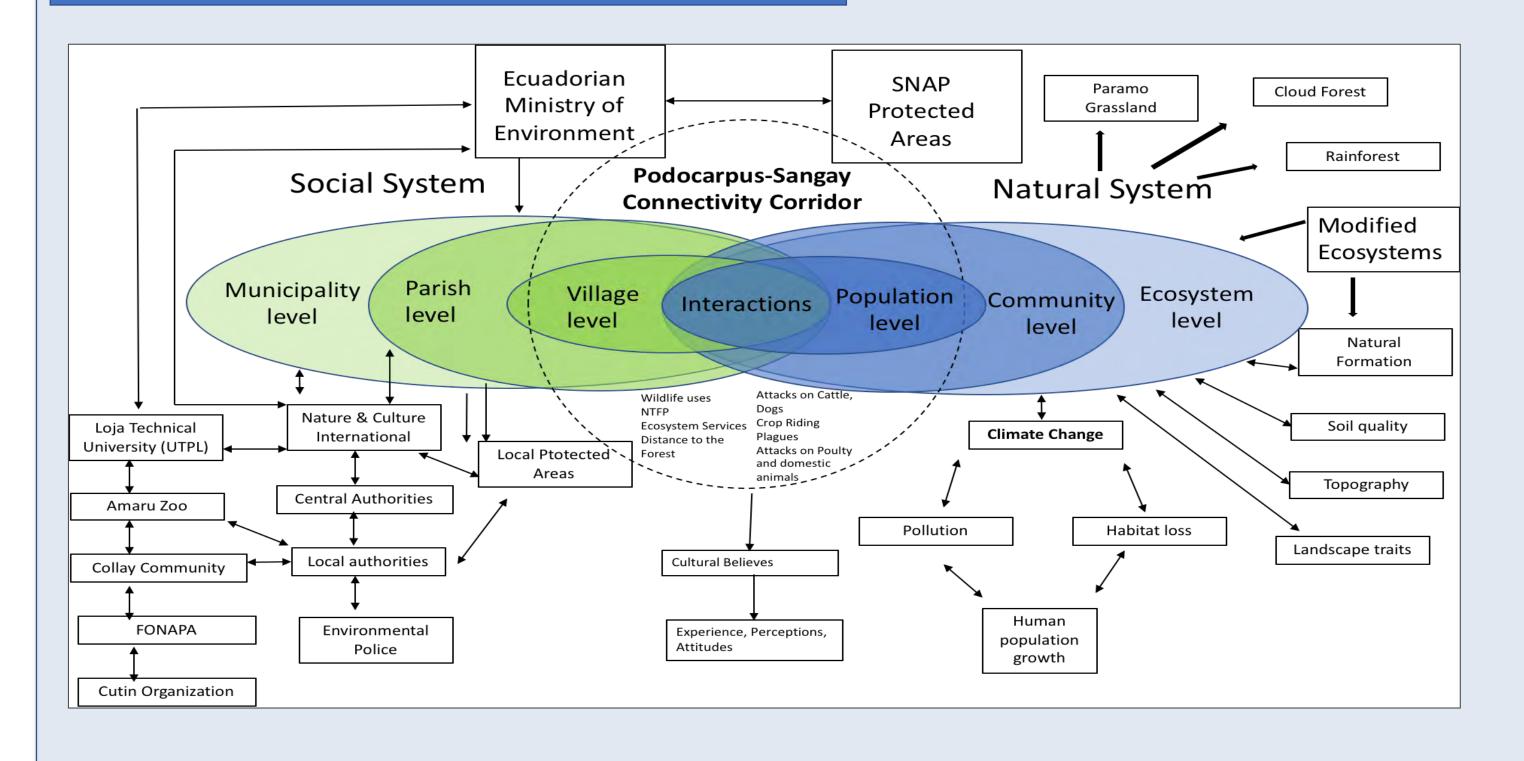
# Objectives

Map out the geographical occurrence of different types of human-wildlife interactions in the PSCC

Enhance understanding of local people's perceptions related to wildlife and protected areas presence and its influence on their livelihoods within the PSCC

Propose managerial interventions, agreed upon with different stakeholders present in the PSCC, with which to mitigate human-wildlife negative interactions.

## Human-wildlife interactions



## Methods

• Information gathering and socialization

Focus groups

Participatory mapping

Training for Interviewers and trainers

• One-on-one interviews



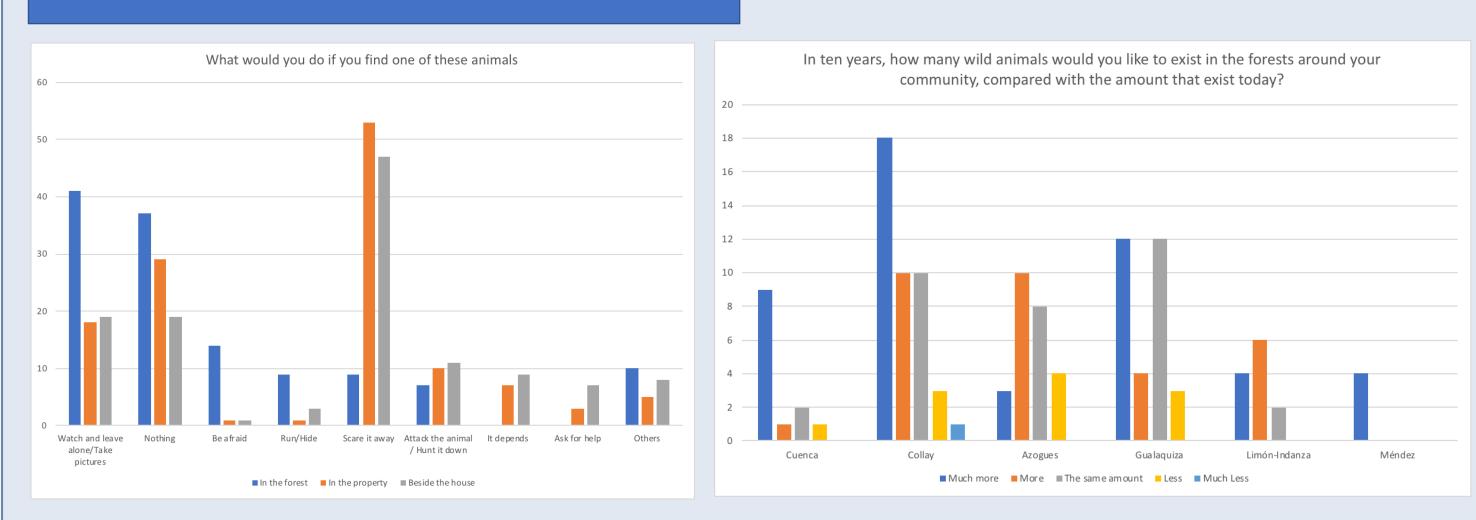
Zones of the SPCC covered and

number of interviews per zone





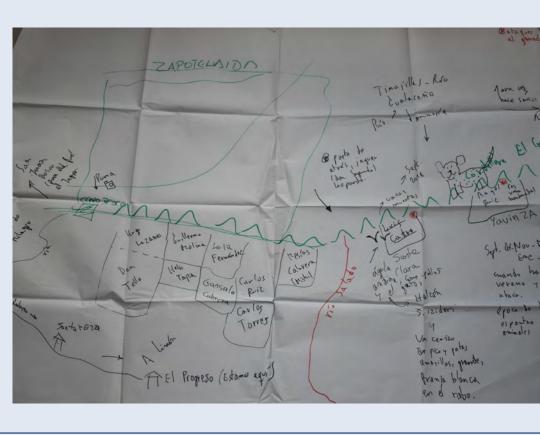
#### Results



Most of the rural people interviewed have had experienced some level of interaction with wild animals. Even so, their attitudes towards native animals, protected areas, and ecosystems conservation were mainly positive (Figures). People's perceptions about their territory have helped to identify zones of high wildlife prevalence, which are nearby protected areas and/or mountain tops (participatory mapping results, below). Negative interactions are of different types and include crop riding by small to medium-sized animals and attacks on cattle and domestic animals (sheep, poultry, pigs, among others). The most salient conflicts are those between humans and large carnivores attacking their herds.

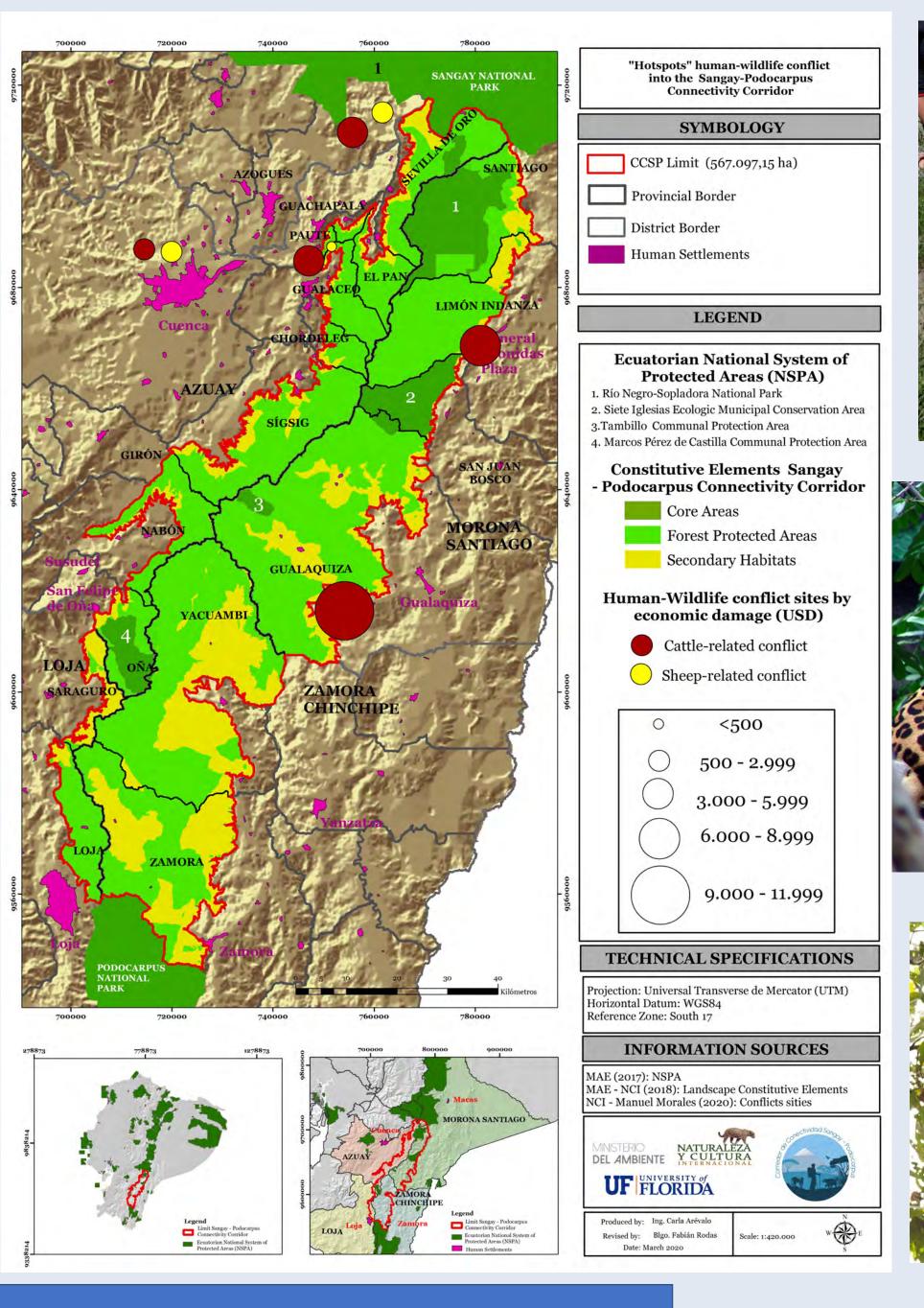
Wild animals involved were, among others, jaguars in the lowlands and spectacled bears in the highlands (map, top right). Other problematic animals identified were feral dogs, Andean fox, tayras, ocelots, opossums, and weasels.

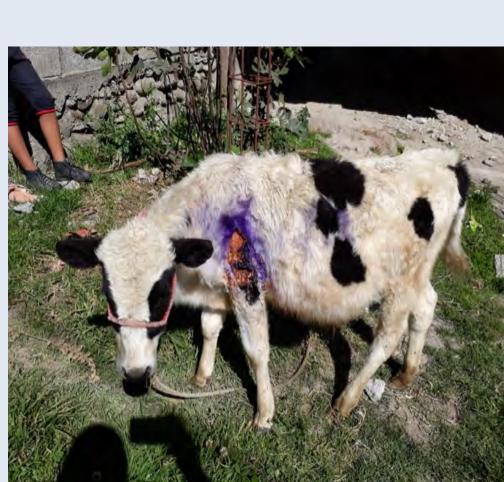




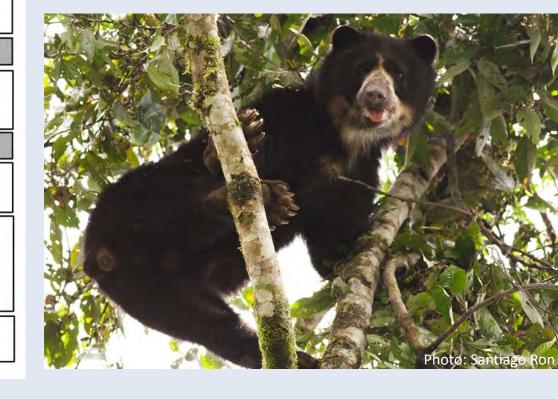


#### Human-carnivore conflict zones









#### Conclusions

- The type and intensity of human-wildlife interactions are highly dependent on local productive systems, ecosystems, and cultural backgrounds, all of which interact in shaping the response to an actual or potential threat, such as crop-raiding, cattle attacks, or pest infestation.
- Most of the people support biodiversity conservation, although levels of tolerance tend to vary with the context.
- There are good practices for cattle-ranching, identified for the zone, that can be replicated, in order to avoid or diminish actual or potential conflict with wild animals.

## Research Team

Research leader: Manuel Morales. General Coordination: Fabián Rodas Field Team: Fernando Juela, Lindaly Tapia, María Cristina Narváez & Nancy Tapia. Maps and Logistics: Carla Arévalo.













